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TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Application Number	10/523479-Conf. #6126
		Filing Date	February 4, 2005
		First Named Inventor	MORAN, Magdalene M.
		Art Unit	Not Yet Assigned
		Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission	4	Attorney Docket Number	0110313.00138US2

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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	WILMER CUTLER PICKERING HALE AND DORR LLP		
Signature			
Printed name	Lisa N. Geller, Ph.D.		
Date	9 November 2005	Reg. No.	51,726

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Docket No.: 0110313.00138US2
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Magdalene M. MORAN et al.

Application No.: 10/523479

Confirmation No.: 6126

Filed: February 4, 2005

Art Unit: Not Yet Assigned

For: SPERM-SPECIFIC CATION CHANNEL,
CATSPER3, AND USES THEREFOR

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
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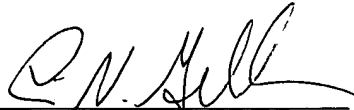
Applicants hereby make of record the publications listed on the attached Form PTO/SB/08a/b. Copies of all cited references are enclosed.

This Information Disclosure Statement is being filed prior to the mailing date of a first Office Action on the merits. No fee is required.

Applicants request that the Examiner initial and return a copy of the enclosed Form PTO SB-08 with the next communication.

Dated: 9 November 2005

Respectfully submitted,

By 

Lisa N. Geller, Ph.D.

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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>			Complete if Known		
			Application Number	10/523479-Conf. #6126	
			Filing Date	February 4, 2005	
			First Named Inventor	MORAN, Magdalene M.	
			Art Unit	N/A	
			Examiner Name	Not Yet Assigned	
Sheet	1	of	2	Attorney Docket Number	110313.138 US2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	BA	WO-00/61624	10-19-2000	Human Genome Sciences, Inc.		
	BB	WO-01/07611	02-01-2001	Genentech, Inc.		
	BC	WO-01/54477	08-02-2001	Hyseq, Inc.		
	BD	WO-01/75067	10-11-2001	Hyseq, Inc.		
	BE	WO-02/090567	11-14-2002	Children's Medical Center, Corporation		
	BF	WO-03/089583	10-30-2003	Origene Technologies, Inc.		
	BG	WO-03/091434	11-06-2003	Takeda Chemical Industries, Ltd.		
	BH	WO-03/099865	12-04-2003	Inpharmatica Limited		

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CA	Amoult et al., "Activation of mouse sperm T-type Ca ²⁺ channels by adhesion to the egg zona pellucida," Proc. Natl. Acad. Sci. USA, Vol. 93, pp. 13004-13009.	
	CB	Bedford, "Mammalian Fertilization Misread? Sperm Penetration of the Eutherian Zona Pellucida Is Unlikely to be a Lytic Event," Biology of Reproduction, Vol. 59, pp. 1275-1287.	
	CC	Darszon et al., "Ion Channels in Sperm Physiology," Physiological Reviews, Vol. 79, No. 2, April 1999, pp. 481-510.	
	CD	Database EMBL, 11 October 2001, XP002314905, Database Accession No. AAS90759	
	CE	Database EMBL, 14 November 1997, XP002314900, Database Accession No. AA662668	
	CF	Database EMBL, 2 March 2000, XP002314904, Database Accession No. AW472972	
	CG	Database EMBL, 3 March 2000, XP002306736, Database Accession No. AA416577	
	CH	Database EMBL, 2 December 2000, XP002314901, Database Accession No. BF436942	
	CI	Database EMBL, 9 May 2001, XP002314908, Database Accession No. BG718343	
	CJ	Database EMBL, 8 June 2000, XP002314899, Database Accession No. AW971983	
	CK	Database EMBL, 8 October 2001, XP002314906, Database Accession No. BI826910	
	CL	Database EMBL, 15 October 2001, XP002306740, Database Accession No. AF407332	
	CM	Database EMBL, 29 November 2001, XP002314910, Database Accession No. ABL90376	
	CN	Database EMBL, 1 December 2001, XP002306739, Database Accession No. Q91ZR5	

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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
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Sheet	2	of	2	Attorney Docket Number	110313.138 US2

	CO	Database EMBL, 11 September 1997, XP002314902, Database Accession No. AA574312	
	CP	Database EMBL, 30 November 1999, XP002314903, Database Accession No. AW197851	
	CQ	Database EMBL, 3 March 2000, XP002306735, Database Accession No. AA416682	
	CR	Database EMBL, 30 May 2000, XP002306734, Database Accession No. AP000586	
	CS	Database EMBL, 20 October 2000, XP002314898, Database Accession No. BF092492	
	CT	Database EMBL, 25 January 2001, XP002314968, Database Accession No. BF934163	
	CU	Database EMBL, 8 October 2001, XP002314907, Database Accession No. BI829451	
	CV	Database EMBL, 15 October 2001, XP002306738, Database Accession No. AF407333	
	CW	Database EMBL, 29 November 2001, XP002314911, Database Accession No. ABB89967	
	CX	Database EMBL, 1 December 2001, XP002306737, Database Accession No. Q96P76	
	CY	Database EMBL, 25 March 2004, XP002314912, Database Accession No. ACN41330	
	CZ	Database EMBL, 9 May 2001, XP002314909, Database Accession No. BG718245	
	CA1	Garbers, "Ion channels. Swimming with sperm," Nature, Vol. 413, No. 6856, Oct 2001, pp. 579, 581-582, XP 002314956	
	CB1	Hyne and Garbers, "Calcium-dependent increase in adenosine 3', 5'-monophosphate and induction of the acrosome reaction in guinea pig spermatozoa," Proc. Natl. Acad. Sci. USA, Vol. 76, No. 11, pp. 5699-5703.	
	CC1	Jungnickel et al., "Trp2 regulates entry of Ca ²⁺ into mouse sperm triggered by egg ZP3," Nature Cell Biology, Vol. 3, May 2001, pp. 499-502.	
	CD1	O'Toole et al., "Ca ²⁺ Entry through Store-operated Channels in Mouse Sperm Is Initiated by Egg ZP3 and Drives the Acrosome Reaction," Molecular Biology of the Cell, Vol. 11, pp. 1571-1584, May 2000.	
	CE1	Quill et al., "A voltage-gated ion channel expressed specifically in spermatozoa," PNAS, Vol. 98, No. 22, 12527-12531.	
	CF1	Ren et al., A Sperm Ion Channel Required for Sperm Motility and Male Fertility," Nature, Macmillan Journals Ltd., London, Vol. 413, No. 6856, October 11, 2001, pp 603-609	
	CG1	Santi et al., "A dihydropyridine-sensitive T-type Ca ²⁺ current is the main Ca ²⁺ current carrier in mouse primary spermatocytes," American Journal of Physiology, Vol. 271, pp. C1583-93, 1996.	
	CH1	Serrano et al., "Voltage-dependent Ca ²⁺ channel subunit expression and immunolocalization in mouse spermatogenic cells and sperm," FEBS Letters, 462, pp. 171-176, 1999.	
	CI1	Strausberg, Homo Sapiens, Clone Image. 03 March 2003, pages 1-3, especially pages 2-3.	
	CJ1	Tash, "Role of the eAmp, Calcium, and Protein Phosphorylation in Sperm Motility," Controls of Sperm Motility: Biological and Clinical Aspects, ed. Gagnon, pp. 229-240, 1990.	
	CK1	Wassarman et al., "A profile of fertilization in mammals," Nature Cell Biology, Vol. 3, E59-E64, February 2001.	
	CL1	Wennemuth et al., "Cav2.2 and Cav2.3 (N- and R-type) Ca ²⁺ Channels in Depolarization-evoked Entry of Ca ²⁺ into Mouse Sperm," The Journal of Biological Chemistry, Vol. 275, No. 28, pp. 21210-21217, 2000.	
	CM1	Weyand et al., "Cloning and functional expression of a cyclic nucleotide-gated channel from mammalian sperm," Nature, Vol. 368, pp. 859-863, April 28 1994.	
	CN1	Wiesner et al., "Cyclic Nucleotide-gated Channels on the Flagellum Control of Ca ²⁺ Entry into Sperm," The Journal of Cell Biology, Vol. 142, No. 2, pp. 473-484, 1998.	
	CO1	Yanigimachi, "Mammalian Fertilization," The Physiology of Reproduction, Second Edition, eds. Knobil and Neill, pp. 189-317, 1994.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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